

CCTCACATCCCTTAGTGCCTAAGTTCGACGTCGGGCCCTCTAGTCGACGGATC
CA-3'). These primers are used in a PCR reaction to amplify alpha hordothionin by
conventional methods. The resulting PCR product is purified and subcloned into
the BamHI/NcoI digested pBSKP vector (Stratagene, LaJolla, CA) and sequenced
on both strands to confirm its identity. The clone is designated pBSKP-HT (seq. ID
1). Primers are designed for single stranded DNA site-directed mutagenesis to
introduce 12 codons for lysine, based on the peptide structure of hordothionin 12
(Ref: Rao *et al.* 1994 Protein Engineering 7(12):1485-1493) and are designated
HT12mut1 Seq. 10 (5'-AGCGGAAAATGCCCCGAAAGGCTTCCCCAAATTGGC-3'),
HT12mut2 Seq. 11 (5'-
TGCGCAGGCGTCTGCAAGTGTAAGCTGACTAGTAGCGGAAAATGC-3'),
HT12mut3 Seq. 12 (5'-
TACAACCTTTGCAAAGTCAAAGGCGCCAAGAAGCTTTGCGCAGGCGTCTG-3'),
HT12mut4 Seq. 13 (5'-
GCAAGAGTTGCTGCAAGAGTACCCTGGGAAGGAAGTGCTACAACCTTTGC-3').

Please replace Table 2 on page 40 with the following Table 2:

Table 2: SEQUENCE INFORMATION

SEQUENCE ID	PROMOTER	GENE
Seq. 1: pBSKP-HT	None	3361-2947
Seq. 2: pBSKP-HT12	None	3361-2947
Seq. 3: PHP8001gz::HT12::gz expression vector	676-2198	2199-2612
Seq. 4: PHP7999 glb1::HT12::glb1 expression vector	3271-1834	1834-1420
Seq. 5: PHP5025 wx::HT::wx expression vector	43-1342	1343-1757
Seq. 6: PHP 11260 gz::ESA::gz expression vector	676-2198	2199-2675

Serial No. 09/020,716
Group Art Unit: 1638

Seq. 7: PHP11427 gz::BHL::gz 676-2198 2199-2450

Seq. 8-13: artificial sequence primers

Seq. 14: Pea albumin, nucleotide sequence

Seq. 15: Pea albumin, protein sequence

Seq. 16: sulfur-rich 15KD maize protein, nucleotide sequence

Seq. 17: sulfur-rich 15KD maize protein, protein sequence

Seq. 18: methionine-rich 10KD maize protein, nucleotide sequence

Seq. 19: methionine-rich 10KD maize protein, protein sequence

Seq. 20: sulfur-rich rice prolamine, nucleotide sequence

Seq. 21: sulfur-rich rice prolamine, protein sequence

Seq. 22: wheat endosperm purothionin, protein sequence
